**IS 281- Joseph B. Cavallaro**

**8787 24th Ave.**

**Brooklyn, NY 11214**

**Ms. M. Bender, Principal**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class\_\_\_\_\_\_\_\_\_\_

Teacher\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_

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| ***Task: Writing and Evaluating Expressions***  ***6.EE.A1 –*** Write and evaluate numerical expressions involving whole numbers and exponents.  ***6.EE.A2*** – Write, read, and evaluate expressions in which letters stand for numbers. |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Math Rubric | | | | | | | Mathematical Operations | 4 | 3 | 2 | 1 | 0 | | Mathematical Errors | 4 | 3 | 2 | 1 | 0 | | Mathematical Explanation | 4 | 3 | 2 | 1 | 0 | | Mathematical Process | 4 | 3 | 2 | 1 | 0 | | Total Score | | | | | | |
| **Directions: Answer each question. Be sure to show your work and explain the process you used to find your answer.** | | |

**Part 1- Mr. Green’s Math class is planning a trip to the IMAX Theater. For each student, it will cost $10 for the school bus and $13 for the movie ticket. What will determine the amount of money the class will have to collect in order to pay for the trip?**

1. How will the number of students affect the price?
2. Write an expression to show the amount of money the class has to collect. Use ***“s”*** for students.
3. How much will it cost if only a class of 30 students attend?
4. How much will it cost if the whole 6th grade attends (320 students)?

**Part II**

**Answer the questions that follow.**

1. Mr. Williams drives 55 km a day for work. Write an expression to represent the number of km he will drive in ***“d”*** days?
2. How many km will Mr. Williams drive in:
   * + 1. 5 days?
       2. 8 days?
3. The rental fee for a bike is $10 plus $3 for each hour the bike is used. How much will it cost if you rent the bike for:
   * + 1. 1 hour?
       2. 8 hours?
       3. 1 day?
4. Write an expression that represents the cost for ***“h”*** hours?
5. A wireless provider charges $29.99 per month for service plus $0.10 for each text message. How much will it cost if:
   * + 1. 35 text messages are sent b) 105 text messages are sent c) 217 text messages are sent
6. Write an expression to represent the cost if ***“t”*** text messages are sent
7. The formula for finding the volume of a cube is V = s3, where *s* is equal to the length of one side of the cube. Find the volume of a cube with side length of:

a) inches b) 26.4 meters c) 120 feet